

# INTERNATIONAL SEARCH REPORT

PCT/EP2004/010875

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H02J7/00 H02M3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H02J H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 002 220 A (NISHIMURA KATSUNORI ET AL) 14 December 1999 (1999-12-14) abstract column 4 figure 1	1
Y	EP 0 695 017 A (IBM) 31 January 1996 (1996-01-31) the whole document	1-10
Y	GB 2 243 961 A (SUNLEIGH ELECTRICAL DEVELOPMEN) 13 November 1991 (1991-11-13) abstract page 11, line 9 - line 11 figure 2 claim 3	1-10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

6 December 2004

Date of mailing of the international search report

13/12/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2002/135235 A1 (SMITH ROBERT B ET AL)</p> <p>26 September 2002 (2002-09-26)</p> <p>figure 3</p> <p>paragraph '0042!</p> <p>-----</p>	1-10

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			JP	8054967 A	27-02-1996
			EP	0695017 A2	31-01-1996
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			JP	2002315182 A	25-10-2002
			US	2004145843 A1	29-07-2004